

WHAT IS CLAIMED IS:

1. A heat therapy device comprising:

a plurality of upwardly-protruded acupressure knobs at its upper surface,  
each of the acupressure knobs being attached with superconductive and far-infrared  
5 emitting material;

an indented middle portion;

both side portions curved upwardly at a constant angle to allow them to  
come into close contact with the patient's body, especially, the back or abdomen of  
the patient;

10 handles formed at respective upper ends of both side surfaces of the heat  
therapy device, respectively;

a digital temperature display window installed at one side of an upper  
surface of the heat therapy device;

upper and lower temperature adjustment buttons installed, respectively, at  
15 one side of the temperature display window;

an ON/OFF button, of toggle type, provided between the upper and lower  
temperature adjustment buttons; and

an electric power line formed at one side surface of the heat therapy device  
under one of the handles of the heat therapy device.

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2. A heat therapy system using a heat therapy device comprising a plurality of  
upwardly-protruded acupressure knobs at its upper surface, each of the acupressure  
knobs being attached with superconductive and far-infrared emitting material, an  
indented middle portion, handles formed at both sides thereof, a digital temperature

display window installed at one side of its upper surface, upper and lower temperature adjustment buttons and a toggle type ON/OFF button installed near the temperature display window, an electric power line under one of the handles, and both end portions curved upwardly at a constant angle to allow them to come into  
5 close contact with the patient's body, especially, the back or abdomen of the patient, the heat therapy system comprising:

a) upper and lower bodies defining a receiving space therein, respectively;

b) control boxes formed at adjacent portions of the upper and lower bodies and adapted to control respective components, respectively;

10 c) control panels having a "⌊-shaped" plate shape and formed into a swing manner such that each control panel is connected at its one side to an upper side of the respective control boxes through connectors, thereby facilitating after-service of the control boxes, the control panels being connected with electric power lines of the heat therapy devices;

15 d) motors formed at a center position of respective lower portions of the upper and lower bodies, respectively;

e) pulleys formed at opposite sides of the motors, respectively;

f) upper and lower rails installed between the motors and pulleys, respectively, the upper and lower rails being arranged in two rows to correspond to  
20 the spine of the body;

g) timing belts positioned along a central axis between the upper and lower rails while being directly connected to the motors and pulleys, respectively, each timing belt being formed with bosses at its lower surface;

h) upper and lower mobile units coupled with the timing belts, respectively,

and seated on the upper and lower rails, the upper and lower mobile units being formed with a plurality of heat therapy devices; and

i) other two heat therapy devices formed on the upper body, the heat therapy devices being formed at left and right sides of the upper rails and adapted to apply  
5 acupressure and thermal treatment to both arms of the patient.

3. The heat therapy system as set forth in claim 2, wherein each of the upper rails comprises a rail formed at its upper portion with a plurality of screw holes, and a plurality of detachable curved rail plates arranged at regular distances and formed at  
10 their upper portions with a plurality of screw holes, respectively,

whereby screws are fastened to the upper portion of the rail through the screw holes of the rail plates, respectively.

4. The heat therapy system as set forth in claim 2, wherein the upper mobile  
15 unit comprises:

a carrier having a tensile force adjustment device at a central portion thereof;  
coupling portions adapted to be coupled with coupling portions formed at  
respective one side of two pairs of link bars provided in the carrier, respectively,  
each coupling portion being formed with an upwardly extended protrusion at its  
20 upper surface; and

the heat therapy devices formed with a pair of rollers at both side surfaces,  
respectively,

the carrier comprising:

a square body formed at a center portion of its upper surface with a linear

coupling groove and a pair of screw bores;

a tensile force adjustment device coupled to the coupling groove of the body and adapted to adjust a tensile force of one of the timing belts;

two pairs of hinges formed at both side surfaces of the body;

5 link bars, each link bar being formed at both end portions with perforated holes and at its one end with the coupling portion, one of the perforated holes being formed at the coupling portion, the other perforated hole being used for insertion of the hinge; and

10 rollers formed at opposite outer sides of the respective link bars and adapted to be coupled around the respective hinges, respectively.

5. The heat therapy system as set forth in claim 4, wherein the tensile force adjustment device comprises:

a first tensile force adjustor formed at one side of the body;

15 a second tensile force adjustor formed at the other side of the body, the second tensile force adjustor having the same structure as that of the first tensile force adjustor; and

20 a tensile force adjustment screw fastened into the screw holes formed at the first and second tensile force adjustors and adapted to adjust a tensile force of the timing belt,

the first tensile force adjustor comprising:

a lower tensile force adjustment plate coupled to one side of an upper center portion of the square body;

an upper tensile force adjustment plate extended upwardly from one edge of

the lower tensile force adjustment plate and formed with the tensile force adjustment screw hole;

belt fastening slits formed at one side of an upper center portion of the lower tensile force adjustment plate and adapted to fasten one of the timing belts;

5 a plurality of fixing holes formed at both sides of the belt fastening slits;

movement slots adjacent to the fixing holes, the movement slots being positioned to correspond with a pair of the screw bores formed at the body, thereby allowing screws to be fastened therethrough; and

an upper fixing plate for preventing secession of the timing belt, the upper  
10 fixing plate being formed with a plurality of perforated holes for allowing screws to be fastened to the fixing holes therethrough.

6. The heat therapy system as set forth in claims 2, wherein the lower mobile unit comprises:

15 a carrier having the same structure as that of the carrier of the upper mobile unit;

a rectangular bracket having upwardly-protruded portions of a certain length, the upwardly-protruded portions being coupled with the coupling portions formed at the respective link bars of the carrier provided in the upper mobile unit;

20 a pair of rollers formed at a lower surface of the bracket;

a plurality of screw bores arranged linearly at both sides of an upper surface of the bracket;

rails having a “T-shaped” cross section, the rails being coupled to an upper side of the screw bores to form a T-shaped groove, each rail being formed with

perforated holes for allowing screws to be fastened to the screw bores therethrough;

a T-shaped insertion member adapted to be fitted into the T-shaped groove defined between the rails, the T-shaped insertion member being formed with a plurality of bores linearly arranged along a central axis thereof; and

5           heat therapy devices disposed above the T-shaped groove and formed with a plurality of screw bores corresponding to the bores, thereby allowing screws to be fastened therethrough.

7.       The heat therapy system as set forth in claim 2, wherein each of the heat  
10   therapy devices installed on the upper and lower mobile units is provided at its upper surface with a plurality of upwardly-protruded acupressure knobs, which are attached with the superconductive and far-infrared emitting material, respectively; and

          wherein the respective heat therapy devices are curved upwardly at a constant angle to allow them to come into close contact with the patient's body,  
15   especially the back or abdomen of the patient.

8.       The heat therapy system as set forth in claim 2, wherein each of the heat  
therapy devices installed at left and right sides of the upper rails is provided at its upper surface with a plurality of upwardly-protruded acupressure knobs, which are  
20   attached with the superconductive and far-infrared emitting material, respectively;  
and wherein the respective heat therapy devices are curved upwardly at a constant angle to allow them to come into close contact with the body, especially the back or abdomen, of the patient.